



MARKED UP COPY OF THE SPECIFICATION  
USSN 09/724,131

--An adherent catalyst layer can be selected to promote the formation of a given reactive species for reaction with the reactant gas. Adherent catalysts may also be [meployed] employed to promote reactions that generate the desired ion for transport [acorss] across the membrane. For example, the adherent [catlayst] catalyst can be selected to promote the formation of a given reactive oxygen species for oxidation of a reactant gas. Tables 1 and 2 in co-pending U.S. patent application serial number [09/960,182] 08/960,182, filed October 29, 1997 and published PCT application WO98/23051 provide a listing of suitable known catalysts with citations to the literature for various hydrocarbon oxidation reactions. Tables 1 and 2 of the co-pending U.S. application are incorporated by reference herein in their entirety and the references cited in these two Tables are incorporated by reference in their entirety herein, to the extent not inconsistent with the disclosure herein, for details of catalyst composition, structure, preparation and reactivity.--